		GENERAL	NOTES:	1
1.	CODE	NORK AND EQUIPMENT UNDER THIS DIVISION SHALL BE IN STRICT COMPLIANCE WITH THE S, STANDARDS AND PRACTICES LISTED HEREN, AND THEIR RESPECTIVE DATES ARE ISHED AS THE MINIMUM LATEST REQUIREMENTS.	9.	Wf (C
	1.	STATE OF FLORIDA.		,
	2.	LAKE COUNTY.		
	3.	LIFE SAFETY CODE - NFPA 101 (2006).		В
	4.	UNDERWRITERS LABORATORIES, INC. PÚBLICATIONS		
	5	NATIONAL FIDE DECITED ACCOUNTION (NEDA)		

- NATIONAL FIRE PROTECTION ASSOCIATION (NFPA).

 AMERICAN ATIONAL STANDARDS INSTITUTE (ANS).

 NATIONAL ELECTRICAL CODE NFPA 70 (2008).

 INSTITUTE OF ELECTRICAL AND ELECTRONIC ENGINEERS (IEEE).

 NATIONAL ELECTRICAL MANDFACTURER'S ASSOCIATION (NEMA).
- 9. NATIONAL ELECTRICAL MANDE CURREY A SOCIATION (NEMA).
 10. INTERNATIONAL POWER CABLE ENGINEER'S ASSOCIATION (POEA).
 11. NATIONAL ELECTRICAL SAFETY CODE (NBS HANDBOOK 81)
 12. REQUIREMENTS OF LOCAL POWER CORPORATION.
 13. FLORIDA BUILDING CODE 2007 WITH 2009 SUPPLEMENTS.
 14. THE AMERICANS WITH DISABILITIES ACT (ADA)

- FLORIDA ACCESSIBILITY CODE
 NATIONAL FIRE ALARM CODE NFPA 72 (2002).
- 2. REFER TO THE SPECIFICATIONS FOR INFORMATION NOT SHOWN ON THE DRAWINGS.
- 3. COORDINATE OUTLET BOX LOCATIONS WITH MASONRY TO MINIMIZE CUTTING OF BRICK OR
- ALL MOUNTING HEIGHTS TO CENTERLINE OF DEVICE UNLESS OTHERWISE NOTED, VERIFY ALL OUTLET LOCATIONS ON THE JOB PRIOR TO ROUGH-IN.
- 5. ALL DEVICES SHALL BE MOUNTED VERTICAL, UNLESS OTHERWISE NOTED.
- COORDINATE THE LOCATION OF ALL DEVICES AND BOXES WITH WINDOWS, CHALK/MARKER BOARDS AND BULLETIN BOARDS, BUILT-INS, AND CABINETS PRIOR TO INSTALLATION OF CONDUITS OR BOXES. CONTRACTOR SHALL CONSULT ALL CONTRACT DRAWINGS TO VENIFY CONFLICTS WITH MARKER BOARDS, BULLETIN BOARDS, BUILT-INS AND CABINETS PRIOR TO
- 7. ALL CONDUITS SHALL BE CONCEALED. IF CONCEALED CONDUIT IS NOT FEASIBLE (EXISTING BLOCK WALL CONSTRUCTION) INSTALL CEILING MOUNTED DEVICES.
- EQUIPMENT SHALL BE OF MATERIALS SUITABLE FOR AND RATED FOR THE ENVIRONMENT IN WHICH THEY ARE TO BE INSTALLED, WITH APPROPRIATE NEMA ENCLOSURE RATING.
- A. WORKING CLEARANCES FOR ELECTRICAL EQUIPMENT SHALL BE IN COMPLIANCE WITH
- B. THE EXCLUSIVELY-DEDICATED SPACE EXTENDING FROM FLOOR TO STRUCTURAL CEILING WITH A WIDTH AND DEPTH OF THE PANELBOARD OR SWITCHBOARD MUST BE CLEAR OF ALL PIPINE, DUCTS OR EQUIPMENT FORCIEN TO THE ELECTRICAL EQUIPMENT OR ARCHITECTURAL APPURTENANCES IN ACCORDANCE WITH NEC 110.

- WHEN ELECTRICAL BOXES ARE LOCATED IN VERTICAL FIRE-RESISTIVE ASSEMBLIES, (CLASSIFIED AS FIRE/SMOKE AND SMOKE PARTITIONS), THEY SHALL BE INSTALLED WITHOUT AFFECTING THE FIRE CLASSIFICATION. ALL OF THE FOLLOWING CONDITIONS SHALL BE MET:
- A. ALL ELECTRICAL BOXES SHALL BE METALLIC.
- B. BOX OPENING SHALL OCCUR ONLY ON ONE SIDE OF FRAMING SPACE.
- C. BOX OPENING SHALL NOT EXCEED 16 SQUARE INCHES.
- ALL CLEARANCES BETWEEN OUTLET BOX AND CYPSUM BOARD SHALL BE COMPLETELY FILLED WITH JOINT COMPOUND (OR OTHER APPROVED MATERIAL).
- E. PROVIDE A WALL AROUND OUTLETS LARGER THAT 16 SQUARE INCHES. THE INTEGRITY OF THE WALL RATING SHALL BE MAINTAINED.
- F. THE TOTAL AGGREGATE SURFACE AREA OF THE BOXES SHALL NOT EXCEED 100 SQUARE INCHES PER 100 SQUARE FEET.
- G. OUTLET BOXES LOCATED ON OPPOSITE SIDES OF FIRE-RESISTIVE ASSEMBLIES SHALL BE SEPARATED BY A MINIMUM HORIZONTAL DISTANCE OF 24 INCHES.
- H. OUTLET BOXES SHALL BE SECURELY FASTENED TO WALL FRAMING MEMBERS.
- I. THE OPENING IN THE GYPSUM BOARD FACING SHALL BE CUT NOT TO EXCEED 1/8 INCH BETWEEN THE EDGES OF THE OUTLET BOX AND THE EDGES OF THE OPENING.
- 10. CONTRACTOR SHALL PROVIDE WITHIN 30 DAYS AFTER THE DATE OF SYSTEM ACCEPTANCE Controlor shalf provide mining 30 dats are in the date of states in capture. Record Drawnics of the Adul Installation including, single line duagram of the Bullding Electrical distribution system and floor plans indicating location and area served for all distribution.
- CONTRACTOR SHALL PROVIDE AN OPERATING MANUAL AND MAINTENANCE MANUAL TO OWNER. THE MANUAL SHALL INCLUDE AT A MINIMUM: (1) SUBMITTAL DATA STATING EQUIPMENT RATING AND SELECTED OPTIONS FOR EACH PICE: OF EQUIPMENT REQUIRING MAINTENANCE. (2) OPERATION AND MAINTENANCE MANUALS FOR EACH PICE OF EQUIPMENT REQUIRING MAINTENANCE ACTIONS SHALL BE CLEARLY IDENTIFIED. (3) NAMES AND ADDRESSES OF AT LEAST ONE QUALIFIED SERVICE AGENCY.

ABBREVIATIONS AND ACRONYMS

	(APPLIES TO ALL ELECTRICAL SHEETS)					
A	AMPERES	KW	KILOWATT			
A/C	AIR CONDITIONING	LTG	LIGHTING			
AC	ALTERNATING CURRENT	MCM	THOUSANDS OF CIRCULAR MILS			
AFF	ABOVE FINISHED FLOOR	MCU	MASTER CONTROL UNIT			
AFG	ABOVE FINISHED GRADE	MCP				
AHU	AIR HANDLING UNIT	мн	METAL HALIDE			
ATS	AUTOMATIC TRANSFER SWITCH	N .	NEUTRAL			
AWG	AMERICAN WIRE GAUGE	NA	NOT APPLICABLE			
C	CONDUIT	NF	NON-FUSED			
CFL	COMPACT FLUORESCENT LAMP	NEC	NATIONAL ELECTRICAL CODE			
CH	COUNTER HEIGHT	NIC	NOT IN CONTRACT			
CONC	CONCRETE	NL	NIGHT LIGHT			
COND	CONDUIT	NEMA				
CU	COPPER		MANUFACTURERS ASSOCIATION			
DISC		NFPA	NATIONAL FIRE PROTECTION			
	ENCLOSED CIRCUIT BREAKER		ASSOCIATION			
	ELECTRICAL	O.C.				
EM	EMERGENCY	O.U.C.				
	energy management system	Р	POLE			
	ELECTRICAL METALLIC TUBING	PNL				
EF	EXHAUST FAN	PVC				
	ELECTRIC WATER COOLER	RM	ROOM			
EΧ	EXISTING	RGS	RIGID GALVANIZED STEEL			
FA	FIRE ALARM	SPEC				
FACP	FIRE ALARM CONTROL PANEL	SS	STAINLESS STEEL			
G	GROUND	TYP	TYPICAL			
GFI	GROUND FAULT INTERRUPTER	U.G.	UNDERGROUND			
GND	GROUND	UON	unless otherwise noted			
GRC	GALVANIZED RIGID CONDUIT	٧	VOLTS			
HVAC	HEATING, VENTILATING AND	VAV	VARIABLE AIR VOLUME			
	AIR CONDITIONING	VFD	VARIABLE FREQUENCY DRIVE			
H.J.D.	HIGH INTENSITY DISCHARGE	W	WIRE			
J	JUNCTION	₩P	WEATHERPROOF			
KAIC	(THOUSAND) AMPERE					
	INTERRUPTING CAPACITY					

KILOVOLT-AMPERES

ELECTRICAL SYMBOL LEGEND

(APPLIES TO ALL ELECTRICAL DRAWINGS.)

POWER

JUNCTION BOX WITH IDENTIFIED BLANK COVER

DRAWING INDEX

DESCRIPTION

ELECTRICAL RISERS

ELECTRICAL LEGEND, GENERAL NOTES AND SPECIFICATIONS

ELECTRICAL SPECIFICATIONS

SHEET

E1.0

GENERAL:

THE INSTALLATION SHALL COMPLY WITH ALL LOCAL LAWS AND ORDINANCES APPLICABLE TO ELECTRICAL INSTALLATIONS, AND WITH THE REGULATIONS OF THE NFPA WHERE SUCH REGULATIONS DO NOT CONFLICT WITH THOSE LAWS. OBTAIN ALL PERMITS REQUIRED.

MANUFACTURERS DRAWINGS AND DATA: SUBMIT TO THE ENGINEER FOR APPROVAL FIVE (5) COPIES OF THE COMPLETE LIST OF ALL ELECTRICAL MATERIALS WHICH ARE PROPOSED TO BE FURNISHED FOR THIS PROJECT. AS A MINIMUM THE SUBMITTAL SHALL INCLUDE PANELBOARDS, A.I.C. OF BREAKERS

STANDARD OF MATERIALS AND WORKMANSHIP.
ALL MATERIALS, EQUIPMENT AND APPARATUS COVERED BY THIS
SPECIFICATION SHALL BE NEW, OF CURRENT MANUFACTURE. AND
SHALL BEAT THE SEAL OF APPROVAL OF THE UNDERWRITERS
LABORATORIES. ALL WORK SHALL BE EXECUTED IN A WORKMANLIKE MANNER AND SHALL PRESENT A NEAT AND MECHANICAL APPEARANCE

Storage of Materials: The Contractor Shall provide Suitable Storage Facilities for All Material Furnished by Him Under This Contract, all Items To be installed must be free of Rust and Dirt.

WHEN COMPLETED.

ALL CONDUIT AND BOXES PASSING THROUGH OR INSTALLED WITHIN ALL CONDUIT AND SMOKE WALLS SHALL BE INSTALLED SO AS TO MAINTAIN THE INTEGRITY OF THE WALL THROUGH WHICH IT PASSES. BOXES TO BE INSTALLED WITH 1/8" OF WALL SURFACE.

AT THE COMPLETION OF THE WORK, A THOROUGH TEST SHALL BE MADE IN THE PRESENCE OF THE ENGINEER OR HIS REPRESENTATIVE, AND THE ENTIRE SYSTEM SHALL BE SHOWN TO BE IN PERFECT WORKING CONDITION AS INTENDED BY THESE SPECIFICATIONS.

Gurante:
The Contractor shall leave the entire electrical system
installed by him under this contract in proper working
order and shall replace, without additional charge, all
work or material which may develop defects, ordinary wear
and tear or damage resulting from improper handling
excepted, within a period of one year from the date of
final testing and acceptance by the engineer ballasts shall
be included but lamps shall be excluded.

IDENTIFICATION:

EQUIPMENT:
EQUIPMENT IDENTIFICATION SHALL BE MADE USING ENGRAMED
LAWAITED PHENOLIC OR MICARTA PLATES (INDENTED TAPE LABELS
WILL NOT BE PERMITTED). CHARACTERS SHALL BE WHITE ON A
BLACK BACKGROUND AND 1/4" HIGH MINIMAN PLATES SHALL BE
SECURED TO THE PANELS BY MEANS OF SCREWS OR METAL
PRESSURE PINS. CEMENT, BY TISSEF, WILL NOT ACCEPTABLE ALL
NAMEPLATES SHALL BE MOUNTED ON THE OUTSIDE SURFACE OF THE
PIECE OF EQUIPMENT, INDIMIDUALLY ENCLOSED SAFETY SWITCHES,
CIRCUIT PREMERES AND MINIOR STRATERS BUILL PRIVES COUNTRY ricce of equipment individually energiages specifications, circuit breakers, and motor starters, pull boxes, control cabinets and other such items shall be identified indicating load, electrical characteristics, and source.

JUNCTION BOX IDENTIFICATION:
EACH JUNCTION BOX COVER SHALL BE LABELED WITH A PERMANENT
"MAGIC" MARKER OR OTHER MEANS TO IDENTIFY THE CIRCUITS
WITHIN. FOR EXAMPLE, A JUNCTION BOX CONTAINING LICHTING
CIRCUITS 21, 23, 25 FROM PANEL L2A WOULD BE LABELED
"2.2-21,23,25". TELEPHONE JUNCTION BOXES SHALL BE LABELED
"7.* FIRE ALARM AND OTHER SYSTEM JUNCTION BOXES SHALL BE
LABELED ACCORDINGLY.

CONDUITS BUSHINGS SHALL BE METALLIC WITH INSULATED THROATS. INSULATING GROUNDING TYPE BUSHINGS SHALL BE PROVIDED WHERE REQUIRED UNDER 'GROUNDING'.

NOT MORE THAN THREE CIRCUITS MAY BE INSTALLED IN ANY ONE CONDUIT UNLESS OTHERWISE INDICATED.

ALL CONDUITS SHALL BE CONCEALED UNLESS OTHERWISE NOTED ON THE DRAWNICS. EXPOSED CONDUIT WILL BE PERMITTED ONLY AS SHOWN ON THE DRAWNICS. EXPOSED CONDUIT SHALL BE RUN PARALLEL WITH OR AT RIGHT ANGLES TO THE BUILDING WALLS. ALL EMPTY CONDUITS SHALL BE PROVIDED WITH A PLASTIC OR NYLON

Exposed connections to motors and equipment from overhead conduits shall consist of vertical conduit (minimum size 1) from type 1"L" or "L" unlet to floor flunge. Connection to Equipment shall be with flexible metal conduit from type fot boxes located in the vertical conduit.

FLEXIBLE CONDUIT IN ALL AREAS OTHER THAN CEILING PLENUM SUBJECT TO MOSTURE SHALL BE LIQUID-TIGHT FLEXIBLE CONDUIT. ALL ELECTRICAL CONSECTIONS TO VIBRATION ISOLATED EQUIPMENT SHALL BE MODE WITH FLEXIBLE CONDUIT. ALL CONDUITS SHAT SHALL BE SUITABLY SEALED TO PREVENT THE BUILDING SHALL BE SUITABLY SEALED TO PREVENT THE ENTRANCE OF MOISTURE. ANY WIRING IN A FINISHED AREA WHICH CANNOT BE CONCEALED IN CONDUIT SHALL BE INSTALLED IN A SURFACE METAL RACEWAY, SYSTEM AS MANUFACTURED BY WIREMOLD OR EQUAL UTILIZATION OF SURFACE METAL RACEWAY, IF NOT INDICATED AS SUCH ON THE PLANS, WILL BE ACCOMPLISHED ONLY WITH THE WRITTEN APPROVAL OF THE ENGINEER.

CONDUCTORS:

ALL CONDUCTORS SHALL BE COPPER OF NOT LESS THAN NINETY-EGHT FERCENT (98%) CONDUCTIVITY, WITH NEC TYPE THHAY/THMN, 600 VOLT INSULTION. CONDUCTORS NO. 12 THROUGH NO. 10 SHALL BE SOLID AND NO. 8 AND LARGER SHALL BE STRANGEN. NO CONDUCTORS SMALLER THAN NO. 12 SHALL BE USED EXCEPT AS OTHERWISE NOTED. CONTROL CONDUCTORS MAY BE

NEUTRAL WIRES SHALL BE PIGTALED TO RECEPTACLES SO THAT RECEPTACLE CAN BE REMOVED FOR REPLACEMENT WITHOUT THE NEUTRAL CONNECTION TO OTHER RECEPTACLES ON THE CIRCUIT BEING DISSONRECTED. WHEN STRANDED WIRE IS USED FOR RECEPTACLE AND LIGHTING CIRCUIT, CONNECTIONS TO THE DEVICES SHALL BE MADE USING VINYL INSULATED "STAKON" CONNECTOR TERMANIA!

CABLE AND WIRE SPLICES:

THE MATERIALS SHALL BE COMPATIBLE WITH THE CONDUCTORS, INSULATIONS AND PROTECTIVE JACKETS OF THE RESPECTIVE CABLES AND WIRES.

FOR CONDUCTOR SIZED NO. 6 AWG OR LARGER: SPLICES IN CONDUCTORS SHALL BE MADE WITH INDENTER, CRIMP CONNECTORS AND COMPRESSION TOOLS OR WITH BOLITED CLAMP TYPE CONNECTORS TO INSURE A SATISFACTORY MECHANICAL AND ELECTRICAL JOINT.

ALL JUNCTION BOXES AND PULL BOXES SHALL BE SIZED PER N.E.C. REQUIREMENTS AND BE OF THE PROPER NEUA CLASSIFICATION FOR THE LOCATIONS WHERE THEY ARE INSTALLED, WHERE BOXES COUR ABOVE OTHER THAN LIFT-OUT CEILINGS, ACCESS PANELS MUST BE

WHERE CONDUTS TERMINATE WITHOUT MECHANICAL CONNECTION (I.E. LOCKNUTS AND BUSHINGS) TO PANELBOARDS, AND FOR ALL SIZES OF METALLIC CONDUIT (WITH \$4 OR LARGER; AND FOR ALL SIZES OF METALLIC CONDUIT (ROBO OR FLEXIBLE) TERMINATION IN CONCENTRIC KNOCKOUTS, THE FOLLOWING PROCEDURE SHALL BE FOLLOWING: EACH CONDUIT SHALL BE PROVIDED WITH AN INSULATING GROUND BUSHING AND EACH BUSHING CONNECTED WITH A BARE COPPER CONDUCTOR TO THE GROUND BUSHING THE ELECTRICAL. EQUIPMENT. THE GROUND CONDUCTOR SHALL BE IN ACCORDANCE WITH THE ARTICLE OF GROUNDING OF NEC.

A BONDING AND SINCLE POINT GROUNDING SYSTEM SHALL BE PROVIDED TO INTERCONNECT THE MAIN ELECTRIC SEPACE GROUND, LIGHTNING PROTECTION SYSTEM GROUNDS AND ALL SPECIAL ELECTRONIC SYSTEM ISOLATED GROUNDS, PROVIDE §6 CU FROM FACE AND TTB TO MAIN ELECTRIC SYSTEM GROUND

TEST GROUNDING SYSTEMS AND CONFIRM RESISTANCE IS NOT GREATER THAN 10 OHMS.

WIRING DEVICES:

ISSUED

WALL SWITCHES: ALL SMITCHES SHALL BE FLUSH ENCLOSED TYPE, SPECIFICATION GRADE, RATED AT 20 AMPERES, 120/277 VOLTS, ALTERNATING CURRENT ONLY, AND QUIET OPERATION. COLOR OF ALL DEVICES SHALL BE NORY.

MOTOR SWITCHES:
WITH INHERENT THERMAL OVERLOAD PROTECTION SHALL BE SQUARE
D, TYPE F FOR FLUSH OR SURFACE MOUNTING AS REQUIRED BY
THE LOCATION OF THE UNIT. UNITS SHALL BE FURNISHED WITH PLOT
LIGHTS AS INDICATED.

RECEPTIACLES:
GROUNDING TYPE DUPLEX RECEPTIACLE, RATED 20 AMPERES, 125
VOLTS, 2 WIRE, 3 POLE WITH GROUNDED SHUNT (YOKE
PERMANENTLY GROUNDED TO THIRD CLIP).

OTHER RECEPTACLES LISTED ON THE DRAWINGS SHALL BE SPECIFICATION GRADE RECEPTACLES. ALL RECEPTACLES SHALL BE NORY IN COLOR.

DEVICES PLATES:

ALL PLATES FOR SWITCH, RECEPTACLES AND TELEPHONE OUTLETS

LOCATED IN FINISHED WALLS SHALL BE SMOOTH THERMOPLASTIC.

COLOR TO MATCH DEVICE. ALL PLATES FOR OUTLETS LOCATED ON

ACCEPTABLE MANUFACTURERS: HUBBELL, LEVITON, P&S.



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SUBMETERING DINGS COUNTY (3 BUILE LAKE

No. Date

FLORIDA 32778

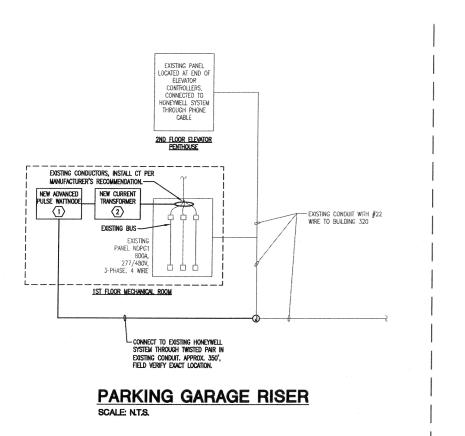
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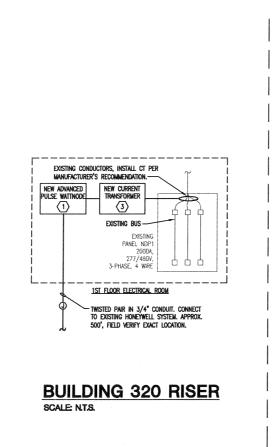
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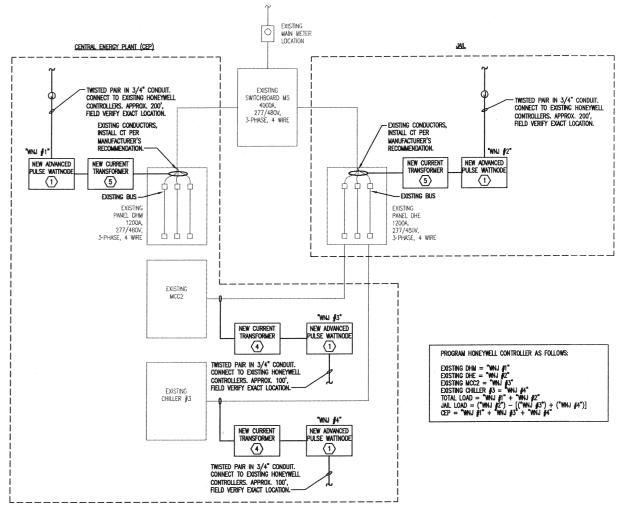
Project No.:	511175
Issue Date:	2/8/2012
Drawn By:	DC
Approved By:	ММН
Scale:	N.T.S.

ELECTRICAL LEGEND, GENERAL NOTES. AND SPECS.

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COUNTY SUBMETERING 3 BUILDINGS LAKE

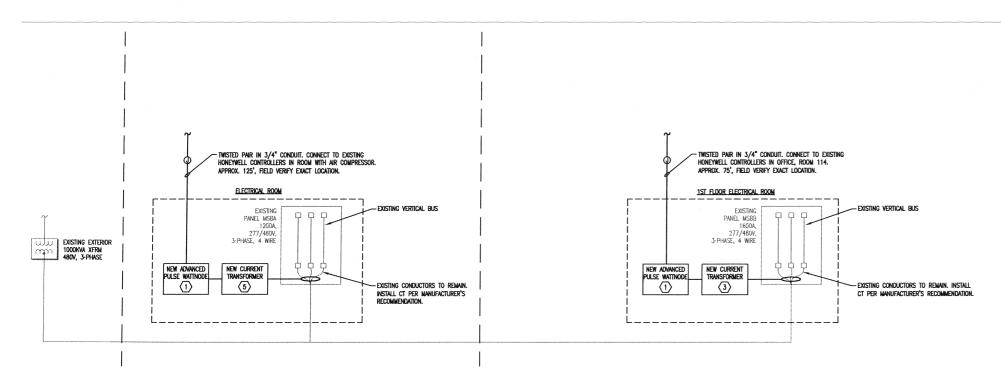
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ELECTRICAL RISERS

BUILDING 90 (JAIL) RISER



1975 CENTRAL ENERGY PLANT RISER SCALE: N.T.S.

BUILDING 315 (COUNTY ADMINISTRATION BUILDING) RISER SCALE: N.T.S.

GENERAL NOTES:

- VERIFY ALL CURRENT TRANSFORMER DIMENSIONS WITH EXISTING CONDUCTOR SIZES FOR ALL PANELS TO BE METERED.
- ALL CURRENT TRANSFORMERS SHALL HAVE A REMOVABLE SECTION SO THAT THEY CAN BE INSTALLED WITHOUT INTERRUPTING THE CIRCUIT.
- PROVIDE NEW CONDUIT AND WIRE AS REQUIRED TO CONNECT NEW WATTNODE METERS TO EXISTING HONEYWELL CONTROLLERS.
- 4. ALL PROGRAMMING AND GRAPHIC CHANGES REQUIRED TO INTERFACE NEW DATA POINT CONNECTIONS INTO EXISTING HONEWILL SYSTEM TO BE DONE BY HONEWILL AND INCLUDED IN THE CONTRACTOR'S PRICE.
 HONEWILL POINT OF CONTRACT: LARRY ANDERSON @ 407-897-7246 (OFFICE) OR 407-701-5797 (CELL).
- 5. HONEYWELL TO PROGRAM SYSTEM TO ACCOMPLISH THE FOLLOWING: ALL DATA (FROM 8 METERS) SHALL BE RECORDED AND ARCHINED FOR A MINIMUM OF ONE (1) YEAR. A MONTHLY POWER CONSUMPTION REPORT SHALL BE PRINTED SHOWING DATA FOR ALL PANELS AND EQUIPMENT BEING MONITORED. ALL RECORDING AND PRINTING SHALL BE DONE FROM THE EXISTING HONEYWELL WORKSTATION LOCATED IN BUILDING 315 (COUNTY

KEYED NOTES:

- (1) CONTINENTAL CONTROL SYSTEMS LLC, ADVANCED PULSE WATTNODE, MODEL #WNB-3Y-480-P. USE UNISTRUT TO MOUNT NEAR PANEL BEING METERED.
- (2) CONTINENTAL CONTROL SYSTEMS LLC, CTS SERIES SPLIT CORE CURRENT TRANSFORMER, MODEL #CTS-2000-800.
- CONTINENTAL CONTROL SYSTEMS LLC, CTB SERIES BUS BAR CURRENT TRANSFORMER, MODEL #CTB-4.0X4.0-2000.
- CONTINENTAL CONTROL SYSTEMS LLC, CTS SERIES SPLIT CORE CURRENT TRANSFORMER, MODEL #CTS-2000-400.
- (5) CONTINENTAL CONTROL SYSTEMS LLC, CTS SERIES SPLIT CORE CURRENT TRANSFORMER, MODEL #CTS-2000-1200.